

OY	904	TCATAGGCGCTACAAATGGCATCAATGGCGTGTGACAGCCGAAACCTTAAATATCTTG	963
OY	1508	TCATGTGTGCTTATAGAGGGCTCAAGCGCAACCGTCTTGCGGCACGACAGACTGCTTA	1567
OY	964	ATGGATGCTCTTGCAGAAAGAAATGGGGTTGGGATGAGCTTAATCATGAGACACTGGTACGGCA	1023
Db	1568	ACAACGTGCTCTGCGACCGAGAGTGGGGGCTTCCAGGGCTTGGGTGATGTCCAGTGGCTTGCCA	1622
OY	1024	CATACAGTACCAACAGAAACCGGTGTGGCAGGCTCGACTTCGAGATGCCCCGACCTCCAC	108
Db	1628	C---CCCGGGGACACGAGCGCCATCCAAAGGCGCTCGACACAGAGAT---GGGCGTCGAG	1680
OY	1084	GCTTCCGAGGAAACACTCAAGTTCAAGTCTCCAAAGTCCAAAGGAAAGGCCCTTATTCACGTCA	1143
Db	1681	CTCCCCGGCGACATTCGCCGGGCGAGACCTCTGCGCGCGCCCAAGTTCTTGGTGACGG	1744
OY	1144	TTGACCAAGAGGCTTAGGGAAATGTTCTTCAGTTCTCTCAAGAGTGTGCTGCTCGGAGTGA	1203
Db	1741	CTGA-----AGAGGGCGCTCCGAAACGGCACAGGTGCCGAGGGG	1783
OY	1204	CGGAGACGCGCCCGAGACGACTGTCAACACACCCCGAAACGGCAGCTTCTTCGGGA	1267
Db	1781	CCGTGACCGCGGTGCGGAGCGCATCGTCAACCAAGATGAGACAAAGTTGCGTGTCTCTCG	1840
OY	1284	AGGTTGGCAACGAGGGGATGTGCTGTGTAAGAACGAGAAACAAGCTTGTGGCTTGAGCA	1322
Db	1841	CGACTCGGGCGCCCGCCCGAGGTGACAGAGCGCGGCCCAAGGGGTGTCGCCCAAG	1900
OY	1324	AGAAAGAAAGACGCTAATTTGTGGGCCCAACGCCAAGACAGGCACATACACAGCGCGAG	1383
Db	1901	TGGCGAGAAAGCGGGGGGTGTCTCTCTGGGACACAGGGGCCAGCGCTTCGCGCTCGCGGGT	1966
OY	1384	GCTTCGCCGCATCAGGGGCTTACTAGCACTCACTCCCTTTGACGGCTCAGACAGACAC	1443
Db	1961	ACGCGGGCAAGAGCATGCGCGTATCGGCGCCGACGCGCCGTGCAG-CCCAAGGTTCACCGGC	2019
OY	1444	TCGAGAGCGCGGCTATGCTACACGCTGGGGCGCTACACACACCGTCTCTCATTTAAGGG	1503
Db	2020	CTGGGCAACGCCCACTGTCGCCGACTCGGCGGGCGCGCGCTGTGCACACATCAAAGGC	2079
OY	1504	AGCAATGCTCTACCCCGACGCGGCGTTCGGGCACTGCGCTGAGAGGTCTTCAACGAGACCC	1563
Db	2080	CGCGGGGGCGCGGGTGGGACGATGAGCTACGAAACGGGTGAAGAGACTTGGGGACGGGG	2139
OY	1564	CTGGTACCCCTAACCGGCACACATTGACGACTTTCTTCAACAAAGACGACATGACAC	1623
Db	2140	ATCCGGGGGCGCAGCTCAAC-----CCGGGCTTCAACC	2173
OY	1624	TGTGTGACTACTTACCAACCCCAAGGCGGACAGACGTTGATACGCCGACATGAGAGGGCAGT	1683
Db	2174	AGGGCCACACACTGTGACCCCGGCGCAAGGCGGGGCGCTGTACAGACGGCAGCTGACCTGTC	2233
OY	1684	ACACGCGCGAGAGGACTGTGACTACAGAGTCTGGCTCTGCTGTGCGGACAGCGCAAGAG	1743
Db	2234	CCGGCAAGGGGAGATACCGGATCTCGTCAAGGCCACCGGTGGCTATGCGGAGGGTGCAG-	2299
OY	1744	CGTACGTAGACACCACTGCTGTGTGACAAAGCCACCAAGCAGGTCCCGGGCGATGCTT	1803
Db	2293	-----CTGGCAGCCACA	2305
OY	1804	TCCTTCGGGCTCCGCGCACCCCGGAGAGACAGGGCGCATCAATCTGTCAAGAGGCACACGT	1866
Db	2306	CCATCTGAGGGCGGTGACAGTTCTAGCGGAAGGTGAGAGCCCGCTCTCTCAAGCTGACCAAG	2366
OY	1864	ACAAGTTTCAAGATGAATTTGGGCTCGGCAACCCACTACACCCCTCAAGGGCGGACACATCG	1923
Db	2366	GCACGACCAAGCT-----CAGATTCGCGGCTTTCGGAGTGA	2401
OY	1924	TCCCGGGCACAGGCTCCCTCCGCTCGGCGGCTGCAAGGTCAATTATACGACAGCGCAAA	1983
Db	2402	GCGCGACAGCGCTGTCTCTGTGGACTGGGCTGGGTGACGCGGAGGACGCCACAGCGGAGGA	2461
OY	1984	TCGAAAAGTCCGTGCGCCCTGCGCAAGAGACAGACCAAGGTCAATCTGTGCGGGCGCTTAA	2043

Db	2462	TCGGCAAGCCGCTGGAGTCGGCGCGGAAAGGCCCGCTACGGCCATCGTGTCCG-----	2514
Qy	2044	ACGCCGACTGGGAGACCGAGAGGGCCGACCGCGCAGACTGAAGCTCCCCGGCGTGG	2103
Db	2515	--TAGACGACGAGCGACCGAGAGCGGTGACCGCTCGCAACCTGTCGGTCGCCG?TACGAGG	2572
Qy	2104	ACCAAGCTCATTTGCCGAGCTGGCGCGCGGACCCAAACCAACGCTGCTGTCAATGCAAGAGG	2163
Db	2573	ACCAAGCTCATTTGCCGAGCTGGCGCGCGGACCCAAACCAACGATTCGTGGTCTCAACACCG	2632
Qy	2164	GCACCCCGGAGAGATGCTCCCTGGGTGAGACCAACGCCGCCCGTCATTCAGGCGCTGTACG	2223
Db	2633	GTTGCTGGGTCTATATGCTCCGTGGCTGTCCAAAGACCCCGCGGTCTGTGACATGTGTACC	2692
Qy	2224	GCAGCAACGAGACGGGCACTCCATTGGCCGACGCTGCTTTTGGCGATCAACCCCTCGG	2283
Db	2693	CGGGCGAAGCGGGGGCGGAGCGACCGCGCGCTGCTTACGGTGAACGACCGGAGCG	2752
Qy	2284	GCAAGCTGTCCCTTACGTTCC-----CCAAGCGCTCGAGAGCAACCCCGTTCCTCA	2337
Db	2753	GCAAGCTTACGCAAGAGCTTCCCGGCGCGGAGAACGACGACCCGTCGGCGCGACCGGA	2812
Qy	2338	ACTTCCGACACGAGGCGCGGGCGGACGCT---GTACGGGAGAGGACGCTTACGTCGGGTACA	2394
Db	2813	ACCGCTTACCGGGCGGTGCAACACGACGATACAGCCAGGAGCATTCACGTCCGGGTACC	2872
Qy	2395	GGTACTACGATTTGCCGACAGAGAGCTCAATTTCCCTTTGGCACCGGCTGCTCTACA	2454
Db	2873	GCTGGTTGCAACAGAGAACGTCACAGCGCGCTGTTCCGTTGGGACAGCGCGCTGTGTACA	2932
Qy	2455	CCACTTTTGCCTTTTCCATATCTCCGTGTCTACAGAAC---GGCAAGCTGAGCGTGT	2511
Db	2933	CCTGTTTACGCAAGAGCGCCCGACGTCGTGTGGTGGCACTCCACGCGCGGCTGAAGGTCA	2992
Qy	2512	CCCTCTCCGTAAGAACACCGGGCTCCGTGGCGGCGACAGGTGGCCCGGACGCTTACGTCA	2571
Db	2993	CGGTACGAGTCCGACAAAGCGGGCAGCGCGCGGCGAGAGAGTCTCTCAAGCGTATCTCG	3052
Qy	2572	AGCCCCCTCCAAAGCGCCCAAGATTACCGCCCCCTCAAGAGGCTCAAGGCTTCGCAAGG	2631
Db	3053	GGCGAGGCCCGAAGGTACGAGCGCTCCGAGGCGGAGAAAGATCGTGGGCTACAGAAAGG	3112
Qy	2632	TCGAAGCTGACACCGCGGAGACGACGAGCGGTGAC	2665
Db	3113	TCGGGCTCGCGGCGGCGAGTCCAGAGCGGTGAC	3146
RESULT 2			
US-09-320-878-20			
Sequence 20, Application US/09320878A			
Patent No. 6117659			
GENERAL INFORMATION:			
APPLICANT: ASHLEY, Gary			
APPLICANT: BETLACH, Melanie C.			
APPLICANT: BETLACH, Mary C.			
APPLICANT: MCDANIEL, Robert			
APPLICANT: TANG, Li			
TITLE OF INVENTION: RECOMBINANT NARONOLIDE POLYMERIDE SYNTHASE			
FILE REFERENCE: 300622002120			
CURRENT APPLICATION NUMBER: US/09/320, 878A			
EARLIER FILING DATE: 1999-05-27			
EARLIER APPLICATION NUMBER: CIP OF 09/141, 908			
EARLIER FILING DATE: 1998-08-28			
EARLIER APPLICATION NUMBER: CIP OF 09/073, 538			
EARLIER FILING DATE: 1998-05-06			
EARLIER APPLICATION NUMBER: CIP OF 08/846, 247			
EARLIER FILING DATE: 1997-04-30			
EARLIER APPLICATION NUMBER: 60/119, 139			
EARLIER FILING DATE: 1999-02-08			
EARLIER APPLICATION NUMBER: 60/100, 880			
EARLIER FILING DATE: 1998-09-22			
EARLIER APPLICATION NUMBER: 60/087, 080			

; EARLIER FILING DATE: 1998-05-28
 ; NUMBER OF SEQ ID NOS: 34
 ; SOFTWARE: Patentl Ver. 2.0
 ; SEQ ID NO: 20
 ; LENGTH: 2401
 ; TYPE: DNA
 ; ORGANISM: Streptomyces venezuelae
 ; US-09-320-878-20

Query Match 5.0%; Score 179; DB 3; Length 2401;
 Best Local Similarity 47.7%; Pred. No. 1.5e-27;
 Matches 1018; Conservative 0; Mismatches 966; Indels 150; Gaps 11;

QY 544 CGCTCGGTTCCACATTCACCAACTCTGCTCGAAGAGGCGGTAAAGATGAGCGCAAG 603
 DB 255 CCTGGGACACACCTTGGAGACACCATGGCCGACAGCTACAGAGTATGAGCGCGG 314
 QY 604 AGGCGATCGCTAAGAGTGGCGATGTATCTCTGCGCCCGACTATCAACATGCAAGCGTCC 663
 DB 315 ACGGTCCGGCGCTCAACAGAGACATGGTCTGCGCCGATGATGAACACATCCGGGTGC 374
 QY 664 CTCTCGGTGAGCGGCTTCTGAGTCATGTTGAGATCCGTTCTGCGCGGCTTGGAG 723
 DB 375 CGCACGGCGCGGACATAGAGACCTTCAAGCAGAGACCCCTGCTCTCTCGCGACG 434
 QY 724 CTGCGGCTCTCATCCGCGCATTCAGCACTGAGATGCGAGCTAGCATCAACACTTTT 783
 DB 435 CGGTGCGCGCATCAAGGCGATCCAGGGGTGCGGCTGATGACCAAGCGCAAGCTCTCG 494
 QY 784 TGTGCATGATCAGGAGAGAGCGCATGATGATGTCAGACATCTGTCAGAGCGGCTC 843
 DB 495 CGGCGAACAACCAAGAGAACACCGCTTCTCCGTAAGCCCAATGTCAGAGAGAGAG 554
 QY 844 TCCGTAATCTACGCACTCCGTTCCAGATTTGCTGTCGAGACTCCACCGGCTCGT 903
 DB 555 TCCGGAATCGAGTCCCGGCTTCGAG---CGCTCTCCAAAGCGCGGCGGCTCTCT 611
 QY 904 TCATGAGCGGCTNACATGAGCATCAATGAGCGCTGTCGAGAGCAACCTTAATATCTTG 963
 DB 612 TCATGTCGCTACACCGGCTCAACGAGAACCGCTCTCTGCGCAAGAGAGAGCTCTCA 671
 QY 964 ATGGATGCTTCGAAGAGATGGGTTGGATGAGCTAATCATAGAGAGCTGTACGGCA 1023
 DB 672 ACAAGTCTGTGCGACAGAGTGGGCTTCCAGGGCTGGATGATGCTGACGCTCCGCA 731
 QY 1024 CATACAGTACACAGAGCCGTTGTGGAGAGGCTGACCTGAGATGCGCGAGCTCAC 1083
 DB 732 C---CCCGGGACCGACCCATCAACAAAGGCGCTGACAGAGATG----- 775
 QY 1084 GCTTCCGAGGAGAACTCAAGTCTCAAGCTCTCAACGAGAAAGCCCTTTATCACTCA 1143
 DB 776 -----GCGCTCAAGCTCCCGGCGACGTCGCAAGGGGAGGCCCTCGCGCGGCA 827
 QY 1144 TTGACAGAGAGGCTAGGAAGTTCTTCAAGTCTGTCAGAGATGTCTCTCCGAGTGA 1203
 DB 828 AGTTCCTGGCGA---GGGCTGAAGAGCGGCTCTCAAGCGCAAGCTCCCGAGGGG 884
 QY 1204 CGGAGAACCGCCCGAGAGCATGTCACAAACACCCCGAAACGCGACGCTCTCTCCGGA 1263
 DB 885 CCGTAGCGGCTGGGAGCGGATGTGTGGCCATGAGAGAGTTCGCTGCTCTCG 944
 QY 1264 AGGTTGGCAACGAGGATCTGTCTGTGAAGAACGAGAAACAGTTCTGCGCTTGAGCA 1323
 DB 945 CCAGTCCGGCGCGCGGCGCGAGCGGACAAAGGCGGTGCCAGCGGTCTCCCGCAAG 1004
 QY 1324 AGAAGAGAGAGAGCTGATGTTGCGGCCCAAGCGCAAGAGCGCAATCAACAGCGGCGAG 1383
 DB 1005 TCGCCAGAGAGCGCGGCTCTCTGTCGACAGAGAGCGCGCCCTCGCGCTCGCGGTG 1064
 QY 1384 GCTCTCGCGACTCAGGCGCTACTAGCAGTCACTCCCTTTGACGCGCTCAAGCAAGCAGC 1443
 DB 1065 ACGCCGCAAGAGCATCGGGGTATATGCGCCGACGCGCTCGAC-CCCAAGGTCAACGCGC 1123

QY 1444 TCGAGACGCGGCATCGTACACCGTTCGGCGCTACACCAACCGTTCTCCATCTAGCG 1503
 DB 1124 CTGGGACAGCGCCACAGTGTCTCCGAGCTCGGCGGGGCGCCACTGACACCATCAAGGCC 1183
 QY 1504 AGCAGTGCCTCAGCGCCGACGGCGCTCCGGCATGCGTGGAGGGTCTTCAACAGAGGCC 1563
 DB 1184 CGCGGCGGGTGGGAGCGGTCACGCTGACTACAGAGACGGGTGAGAGACCTTGGGAGCGAG 1243
 QY 1564 CTGGTACCCCTTACCGCCAGACATTTGACAGAGCTTCTTCAACCAAGACAGCATGAC 1623
 DB 1244 ATCCCGGCGGGGAACTTAGC-----CCGCGTTCACAC 1277
 QY 1624 TGGTGACTACTACACCCCAAGCGCGAGACAGCTGTGACGCGACATGAGAGGACGT 1683
 DB 1278 AGGGCCACAGCTGACAGCGCGGCAAGGGGGGCGCTGTACAGAGGACAGCTGACCTGC 1337
 QY 1684 ACACGCGCAGAGAGCTGACCTTACAGAGCTGGGCTGTGTCTGCGGCAACGGCAAGG 1743
 DB 1338 CGCGCGACGCGAGTACCGCATCGGCTCGGCGACCGGTGTACGCAAGGCTGACG- 1396
 QY 1744 CGTACTAGACAGCAGCTGCTGTGACAAAGCCACCAAGCAGGTCCCGCGATGCT 1803
 DB 1397 -----CTCGGACGACCA 1409
 QY 1804 TCTTCCGCTCCGACCCGCGAGAGACGCGCCGATCATCTGTCGAAGGCAACAGCT 1863
 DB 1410 CCATCGAGCGCGGTAGCTGCTACGCGAAGTGAAGGCCCGCTCTCTCAAGCTGACCAAG 1469
 QY 1864 ACAAGTTCAAGATCGAGTTCGGCTCGGACCCACCTCAACCTCAAGGCGAGACCATCG 1923
 DB 1470 GCAGCGCAAGCT-----CAGATCTGGGCTTCGGATGA 1505
 QY 1924 TCCCGGCAACGCGCTCTCCGCTCGGCGGCTGCAAGGTCTATTGACAGCAAGGCCGAAA 1983
 DB 1506 GTGCCACCCGCTCTCTCGAGACTGGCTGGGTGATGCGCGGCGGCGAGCGACAGA 1565
 QY 1984 TCGAAGTCTGCTGCGCTCGCTCGCAAGAGACAGCAAGCATCATCTGCGCGGCTTA 2043
 DB 1566 TCCGGAAGCGCGTGGAGTGGCGCGGAGGCCCTGACGGGCTGCTTTCG----- 1617
 QY 2044 AGCGCGACTGGAGAGCGAGGCGCGACCGCGAGCATGAAGCTCCCGGCTGCTG 2103
 DB 1618 -CTACGACGAGCGCACCGAGGGGCTGAGCGCTCGAAGCTGTGCGGAGTACACAG 1676
 QY 2104 ACCAGCTATTTGCGAGCTGGCGCGCGCAACCAACACCGTCTGTCATCAACAGG 2163
 DB 1677 ACAAGTGTATCTGCGCTGTGCGGACGCGCAACCGAAGAGATGCTGCTTACACAGC 1736
 QY 2164 GCACCCCGGAGAGATGCTTGGCTGACGCGCAAGCGCGCTGATTCAGAGCTGTAGC 2223
 DB 1737 GTTGTGCTGCTGATGCTCGCTGCTGCAAGACCGCGGCTGTGAGATGAGTAC 1796
 QY 2224 GCGGCAACGAGAGCGGCACTCATTTGCGCAGCTGCTTTTGGGACTACAAACCTCTCG 2283
 DB 1797 CGGCGCAAGGGGCGGCGAGAGCGCGCGCTGCTGCTGAGTACGAGTACGTCAGAGC 1856
 QY 2284 GCAAGCTGTCTTCAAGTCTTCC-----AAGCGCTGACAGAACCCCGCTTTC 2334
 DB 1857 GCAAGCTACGACAGGCTTCCCGGCGCGGAGAACGACAGCGGCTGCGGCGACCCGA 1916
 QY 2335 TCAACTTCCGACGAGGCGCGGCGACAGCTGACGCGGAGAGAGTCTACGTGGGTACA 2394
 DB 1917 CCAGTACCGCGGGGTGAGCAACAGAGAGTACCGCGAGGGGATCAAGTTCGGGTACC 1976
 QY 2395 GGTACTACAGATTGCGGACAGAGAGCTGAATTTCCCTTTGGGCAACGGGCTGCTCA 2454
 DB 1977 GCTGGTTCGACAGAGAGAGTCAAGCGCTGTTCCGTTTGGGCGAGGCTGTGCTACA 2036
 QY 2455 CCAGTTTGGCTTTTCCAAATCTCTCGGTGCTCAAGAGAC---GGAAGCTGAGCGTGT 2511
 DB 2037 CCTGCTTACGACAGCGCCCGACGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 2096
 QY 2512 CCTCTCCGTGAAGAACCGCGCTCTGCGCGGCGACAGGTGCGGCTGCTGCTGCTGCTGCT 2571

Db 2097 CGGTACGGTCCGACACACCGGAAAGCGCGCCGAGAGGTCTCCAGGCGTACCTCG 2156
QY 2572 AGCCCTTCACAGCGGCAAGATTAAACCGCCCGTCAGAGGCTCAAGGGCTTCGCAAG 2631
Db 2157 GTGCCAGCCCGAAGCTGAGCGCTCCGACGAGCGAAGAAAGAGCTGTGGGCTACAGAA 2216
QY 2632 TCGAAGTGCAGCCCGGCGAGAGCAAGGCGGTGAC 2665
Db 2217 TCTCGCTCCGCGCGGCGAGCGAAGAGCGGTGAC 2250

RESULT 3

US-09-105-537-23
; Sequence 23, Application US/09105537A
; Patent No. 6265202
; GENERAL INFORMATION:
; APPLICANT: Sherman, D.H.
; APPLICANT: Liu, H.
; APPLICANT: Xue, Y.
; APPLICANT: Zhao, L.
; TITLE OF INVENTION: DNA encoding methymycin and pikromycin
; FILE REFERENCE: 600.438051
; CURRENT APPLICATION NUMBER: US/09/105,537A
; NUMBER OF SEQ ID NOS: 43
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 23
; LENGTH: 2430
; TYPE: DNA
; ORGANISM: Streptomyces venezuelae
US-09-105-537-23

Query Match 5.98; Score 175.2; DB 4; Length 2430;
Best Local Similarity 47.68; Pred. No. 8.8e-27;
Matches 1016; Conservative 0; Mismatches 968; Indels 150; Gaps 11;

QY 544 CGCTCGGTTCCATTCATTAACCAACTCTGCTCGAAGAGGCAAGTAAGATGATGGCAAG 603
Db 353 CCCTGGCCAGACCTTGAGACACACATGGCCGACAGCTAGGCAAGTATGGGCGCG 412
QY 604 AGCCATCGCTAAGATGTCGATGATCTCGGCGGATATCAACAGCTCCG 663
Db 413 ACGGTCCGCTCAACAGGACATGGTCTGGGCGCGATGATGAACAATCGGCTGC 472
QY 664 CTCTCGGATGAGCGGCTGTCGATGATGATGATGATGATGATGATGATGATGATGAT 723
Db 473 CGCAGCGGCGGCACTAGAGACCTTCAAGGAGAGCCCTGATCTCTCCGACCG 532
QY 724 CTGCGGCTTCATCCGCGCATTCAGAGCACTGAGTGCAGCTAGCATCAACACTTTT 783
Db 533 CGGTGCGGCGATCAAGGATCCAGGGTGGGCTGATGATGATGATGATGATGATGATGAT 592
QY 784 TGTCCATGATCAAGAGAGAGAGCGATGATGATGATGATGATGATGATGATGATGATGAT 843
Db 593 CGGCAACCAACAGGAGAAACACCGCTTCTCGTGAACGCAATGTCAGACAGACAGCG 652
QY 844 TCCGTAATCTACGCACTCCGTCAGATGCTGAGGAGAGCTCCAGCGCGGCTGCT 903
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QY 904 TCAATGAGCGGTACAAATGCGATGATGATGATGATGATGATGATGATGATGATGATGAT 963
Db 710 TCAATGATGATCAAGAGGCTCAACGGGAGCGCTGCTGCGGCAACGAGAGCTCTCA 769
QY 964 ATGAGATGCTTGAAGAGATGAGGCTTGGATGAGCTTAATGATGAGCACTGATGAGCA 1023
Db 770 ACAAGGCTGCGCAGCGAGTGGGCTTCCAGGCGTGGTGTGATGCTGATGCTGCTGCGCA 829
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Db 830 C---CGGCGGACAGGAGCGCATACCAAGGCGCTGACCAAGAGATG----- 873

QY 1084 GCTTCGAGAGAAACATCAAGTTCAGAGTCTCCAGAGAAAGCCCTTATTCACGTCA 1143
Db 874 -----GGGTGAGACTCCCGGCGACGTCCGAAAGGCGAGCCCTCCCGCGGCA 925
QY 1144 TTGACAGAGAGGCTAGGAAAGTCTTCAAGTTCGTAAGAGTGTGCTCCGAGATGA 1203
Db 926 AGTCTTCGCGGA---GGCTGAAGAGCGGCGCTCTGAAGGAGCAGGTGCCGAGGCG 982
QY 1204 CGGAGAGCGCCCGAGAGACATCTCAACAAACACCCCGAAGAGCACTCTCTCCGA 1263
Db 983 CGGTGAGCGGCTGGGCGAGAGGATGCTGCGCAAGATGAGAAAGTTCGCTCTCTCG 1042
QY 1264 AGTTCGCAACAGAGGATGCTGCTGCTGAGAGAGCAAGAAACAGTTCGCTTGAAGA 1323
Db 1043 CCACTCCGCGCGCGCGCGCGCGAGAGCAAGCGGCGTCCAGGCGGTGTCCCGAAG 1102
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QY 1684 ACACGCGCGAGAGGAGCTGACCTAGAGCTGAGGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 1743
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QY 1864 ACAAGTCAAGATCGAGTTCGCTCGCACCCACTTACACCTCAAGGCGAGCAACATCG 1923
Db 1568 GCAGCACAAGCT-----CAGCATCTCGGCTTCCGATGA 1603
QY 1924 TCCCGGCGCGGCTCTCCGCTGCGCGCTGCGCGCTGCGAGGTATGAGAGCAAGCGCAAA 1983
Db 1604 GTGCCACCCGCTCTCTGAGAGCTGAGCTGAGTACCGCGCGCGCGCGCGCGCGCGCG 1663
QY 1984 TCGAAGAGCTGCGCGCTCTCGCAAGGAGAGCAACAGGTATGATGAGAGCGAGCGCTTA 2043
Db 1664 TCGGAGAGCGCTGAGTTCGCGCGAGAGAGCGCGCGCGCGCGCGCGCGCGCGCGCGCG 1715
QY 2044 AGCGGAGTGGAGAGCGAGGCG 2103
Db 1716 -CTAGAGAGCGCGAGCGAGGCGTCAAGCGTTCGCAACCTGCTCCGCGGTACGAGG 1774
QY 2104 ACAAGCTATGTCGAGTGGCG 2163
Db 1775 ACAAGCTATGTCGAGTGGCG 1834
QY 2164 GCACCCCGAGAGATGCGCTGCTGAGCGCGAGCGCGCGCGCGCGCGCGCGCGCGCGCGCG 2223

Db 5819 CCATGAGGCGCGTCAAGTCTACGCGAAGTACGAGCGCCGCTCTCAAGTACGACCAAGG 5878
QY 1864 ACAAGTTCAAGATCGATTGCGCTCCGACACCACTACACCTCAAGGCGCACACATCG 1923
Db 5879 GCAGCAGCAAGT-----CAGATCTCGGGCTTCGAGTGA 5914
QY 1924 TCCCGCGCGACGCGCTCCCTCCGCGTCCGCGTCCGAGTATTCAGACACGAGCGGAAA 1983
Db 5915 GTGCCACCGCGCTCCCTCGAGTGGGCTGGTACCGCGCGCGCGCGCGCGCGAGCA 5974
QY 1984 TCGAAAGTCCGTCGCTCCCTCCGCGAAGGACACGACGATATCATCTGCGCGGCTTA 2043
Db 5975 TCGCAAGGCGCGTGGATGCGCGCGGAGGCGCGTACGCGCGCTGCTTCG----- 6026
QY 2044 AGCGGACGAGGAGCG 2103
Db 6027 -CTACGAGAGGAGCG 6085
QY 2104 ACCAGCTCATTCGCGACGTCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCG 2163
Db 6086 ACAAGCTGATCTCGGCTGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCG 6145
QY 2164 GCACCGCGGAGAGTCCCTGCGCTCGACGCGCGCGCGCGCGCGCGCGCGCGCGCGCG 2223
Db 6146 GTTGGTGGTCTGATGCG 6205
QY 2224 CGCGCGACGAGCG 2283
Db 6206 CG 6265
QY 2284 GCAAGCTGCTTCACTTCC-----AAGCGCTGACGAGACACCGCGCGCTTC 2334
Db 6266 GCAAGCTGACG 6325
QY 2335 TCACTTCCGCGACG 2394
Db 6326 CAACCTACCG 6385
QY 2395 GGTACTAGATTTCCGACAGAGACGTCATTTCCCTTTGGCGACGCGCTGCTCA 2454
Db 6386 GCTGGTTCGACAGAGAGACGTCAGCGCGCTGCTCCGCTCGGCGACGCGCTGCTCA 6445
QY 2455 CCACTTTGCTTTTCCAACTCTCGCTGCTCTCAAGAGC-----GGCAAGCTAGCGTGT 2511
Db 6446 CTTGCTTACGACGAGCG 6505
QY 2512 CCTCTCTCGTGAAGAACCGCGCTCCGCGCGCGCGCGCGCGCGCGCGCGCGCGCG 2571
Db 6506 CGGTACGCGTCCGCAACAGCGGGAAGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCG 6565
QY 2572 AGCGCGTCCGAGCG 2631
Db 6566 GTGCCAGCGCGCGAGCGTCCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCG 6625
QY 2632 TCGAAGTCAAGCG 2665
Db 6626 TCTCGCTCCG 6659

RESULT 5
US-09-428-517-1/c

; Sequence 1, Application US/09428517
; Patent No. 6251636
; GENERAL INFORMATION:
; APPLICANT: Belilach, Mary C.
; APPLICANT: Shah, Sanjay Krishnakant
; APPLICANT: McDaniel, Robert
; APPLICANT: Tang, Li
; TITLE OF INVENTION: RECOMBINANT OLEANDOLIDE POLYKETIDE SYNTHASE
; FILE REFERENCE: 30062-20029.00
; CURRENT APPLICATION NUMBER: US/09/428,517
; CURRENT FILING DATE: 1999-10-28

; EARLIER APPLICATION NUMBER: 60/120,254
; EARLIER FILING DATE: 1999-02-16
; EARLIER APPLICATION NUMBER: 60/106,100
; EARLIER FILING DATE: 1998-10-29
; NUMBER OF SEQ ID NOS: 12
; SOFTWARE: Patentin Ver. 2.1
; SEQ ID NO 1
; LENGTH: 50937
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Recombinant DNA
US-09-428-517-1

Query Match 4.7%; Score 138.6; DB 4; Length 50937;
Best Local Similarity 54.0%; Pred. No. 6,4e-19;
Matches 354; Conservative 0; Mismatches 289; Indels 12; Gaps 3;

QY 2048 CGACTGGAGAGCGGCG 2107
Db 3417 CGAGCAGCGCTCGAGAGCGGAGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCG 3358
QY 2108 GCTCATTCGCGACGTCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCG 2167
Db 3357 CCGTATCAGCG 3298
QY 2168 CCGCGAGAGATGCGCTGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCG 2227
Db 3297 CTCCCTCAGCCTGCGCTGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCG 3238
QY 2228 CAACGAGAGCGGCG 2287
Db 3237 CGAGCG 3178
QY 2288 GCTGTCTCTCACTTCC-----CAAGCGCTGACGAGACACCGCGCTTCTCACTT 2341
Db 3177 GCTGACCGAGACCTTCCCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCG 3118
QY 2342 CCGCACCGGCG 2398
Db 3117 CTACCGGAGTCTGATGACCACTGACTCTCCGAGGCGATCTACCTCGCGCTACCG 3058
QY 2399 CTACGAGTTGCCGACAGAGACGTCATTTCCCTTTGGCGACGCGCTGCTCAACAC 2458
Db 3057 GTACGACAGCGAGCG 2998
QY 2459 TTTTGTCTTCCATCT 2515
Db 2997 CTTGCACTACCG 2938
QY 2516 CTCTGTAAGAACACCGCGCTCCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCG 2575
Db 2937 CACGCTGGCAACACCGGTACCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCG 2878
QY 2576 CTTCAACGCGCGCAAGATTAACCGCGCGCGCGCGCGCGCGCGCGCGCGCGCG 2635
Db 2877 GTCCCGGACGTCG 2618
QY 2636 ACTGCG 2690
Db 2817 GCTGCG 2763

RESULT 6

US-09-134-078-5
; Sequence 5, Application US/09134078
; Patent No. 6368844
; GENERAL INFORMATION:
; APPLICANT: Byline, Edward J.
; TITLE OF INVENTION: GLYCOSIDASE ENZYMES
; NUMBER OF SEQUENCES: 72
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Gray Cary Ware & Freidenrich LLP

STREET: 4365 Executive Drive, Suite 1600
CITY: San Diego
STATE: CA
COUNTRY: USA
ZIP: 92121
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette
COMPUTER: IBM Compatible
OPERATING SYSTEM: Windows95
SOFTWARE: FASTEST for Windows Version 2.0
CURRENT APPLICATION DATA:
APPLICATION NUMBER: 05/09/134.078
FILING DATE: 13-AUG-1998
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/949,026
FILING DATE: 10-OCT-1997
APPLICATION NUMBER: 60/056,916
FILING DATE: 06-DEC-1996
ATTORNEY/AGENT INFORMATION:
NAME: Halle, Lisa A.
REGISTRATION NUMBER: 38,347
REFERENCE/DOCKET NUMBER: 09010/024002
TELECOMMUNICATION INFORMATION:
TELEPHONE: 858/677-1456
TELEFAX: 858/677-1465
INFORMATION FOR SEQ ID NO: 5:
SEQUENCE CHARACTERISTICS:
LENGTH: 2166 base pairs
TYPE: nucleic acid
STRANDEDNESS: double
TOPOLOGY: linear
MOLECULE TYPE: Genomic DNA
FEATURE:
NAME/KEY: Coding Sequence
LOCATION: 1...2163
US-09-134-078-5

Query Match
Best Local Similarity 53.5%; Score 135.8; DB 4; Length 2166;
Matches 284; Conservative 0; Mismatches 247; Indels 0; Gaps 0;

545 GCTCGTCCCATTCATCAACCAACCTGCTGAGAGAGCAAGTGAATGATGGGCAAGA 604
|||||
Db 258 GCTCGTCCCATTCATTCGAACAGAGACTTCTGGAAGAGTGGGAAACCATGGAGAGA 317
|||||
QY 605 GGCATTCGCTAGAGTGGCGATGATCTGCGCCGCACTATCAATGCAACGCTCCC 664
|||||
Db 318 AGTTAGGGAATGCGGTGTCGATGCTCTTGACCTGCGATGAACATTCACAGAAACC 377
|||||
QY 665 TCTCGGTGAGCTGGCTTCGATCGATGATGAGATGCGTTCGGCGGGCTTGGGAGC 724
|||||
Db 378 TCTTGTGTGAGAGAAATTCGATGATGATGATGATGATGATGATGATGATGATGAT 437
|||||
QY 725 TGGGGTCTCATCCGCGCATTCAGAGCACTGAGTGCAGGCTGAGCTGAGCAAGCACTTTT 784
|||||
Db 438 TTGAGCTTTGTCAAGAGGATTCATTCAGAGGGTGGGAGCGCTGCAATAAACACTTTGT 497
|||||
QY 785 GTGCAATGATCAGAGAGAGCGCATGATGATGATGATGATGATGATGATGATGATGAT 844
|||||
Db 498 CGGCAACCAACAGGAACACAGAGATGATGATGATGATGATGATGATGATGATGATGAT 557
|||||
QY 845 CCGTGAATCTAGCACTCCCGTCCAGATTCGTCGAGACTCCAGCGGGGTGCTT 904
|||||
Db 558 CAGAGAAATATATCTGAAAGTTTGAATTTGCTGTCAAGAAAGCAAGACCTGAGCGT 617
|||||
QY 905 CATAGCGGCTAGCATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 964
|||||
Db 618 GATGAGGCTTACAAAGAACTGATGATGATGATGATGATGATGATGATGATGATGATGAT 677
|||||
QY 965 TGGGATCTTCGAAAGGATGAGGCTTGGATGATGATGATGATGATGATGATGATGATGAT 1024
|||||
Db 678 GAAGTTCTCAGGAGAAAGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 737
|||||

QY 1025 ATAGAGTACAGAGAGCGGTGTGAGAGGCTGAGCTGAGCTGAGATGCCGG 1075
|||||
Db 738 AGCAACCTGTAGAGAGCTCAGAGCGGCAAGCAATGATGATGATGATGATGATGAT 788
|||||

RESULT 7
US-09-103-840A-2
Sequence 2, Application us/09103840A
Patent No. 6294328
GENERAL INFORMATION:
APPLICANT: FLEISCHMAN, Robert D.
APPLICANT: WHITE, Owen R.
APPLICANT: FRASER, Claire M.
APPLICANT: VENTER, John C.
TITLE OF INVENTION: DNA SEQUENCES FOR STRAIN ANALYSIS IN MYCOBACTERIUM
FILE REFERENCE: 24366-2007.00
CURRENT APPLICATION NUMBER: US/09/103,840A
CURRENT FILING DATE: 1998-06-24
NUMBER OF SEQ ID NOS: 2
SOFTWARE: Patentln Ver. 2.1
SEQ ID NO 2
LENGTH: 4403765
TYPE: DNA
ORGANISM: Mycobacterium tuberculosis
FEATURE:
OTHER INFORMATION: CDC 1551
OTHER INFORMATION: "n" bases at various positions throughout the sequence
OTHER INFORMATION: represent a, t, c or g
US-09-103-840A-2

Query Match
Best Local Similarity 52.0%; Score 111.6; DB 4; Length 4403765;
Matches 345; Conservative 0; Mismatches 289; Indels 30; Gaps 3;

QY 2061 GAGGGCGCGGACCGCGGAGAGTACAGCTCCGCGCTGCTGAGACGACATCTTGGCCGAC 2120
|||||
Db 217690 GAGGGCTTGCAGAGCGCGATCTGCTGCTGATGAGGAGTGGAGTGGAGTGGAGTGGAG 217749
|||||
QY 2121 GTGGCGCGCGGAGAACCCAGACCGCTGCTGATGAGAGAGGAGGAGGAGGAGGAGGAG 2180
|||||
Db 217750 GTGGCGCGCGGAGAACCCAGATATGCTGCTGATGAGGAGGAGGAGGAGGAGGAGGAG 217809
|||||
QY 2181 CCTGCTGAGCGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG 217869
|||||
Db 217810 CCTGCGCGGAGTCTGCTGAGAGCGCATGATGAGGAGGAGGAGGAGGAGGAGGAGGAG 217929
|||||
QY 2241 AACTCATTCGCGAGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 2300
|||||
Db 217870 CAGGCGGCTGCGAGATGCTGAGCGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG 217929
|||||
QY 2301 TTCCCGAGCGGCTGAGAGCAACCCGCTTCTCAACTTCCGACCGAGGCGGCGGCGG 2359
|||||
Db 217930 TTCCCGGCTGAGCTGCTGAGAGCGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG 217989
|||||
QY 2360 -----CAGGCTGAGGCGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG 2405
|||||
Db 217990 GGGACATGACGACGATCTACCTACCTACCTACCTACCTACCTACCTACCTACCTACCT 218049
|||||
QY 2406 TTGCGCAGAGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG 2465
|||||
Db 218050 AGCAACATACAGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG 218109
|||||
QY 2466 TTTCGAATCTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 2525
|||||
Db 218110 TATCTGAGACCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 218166
|||||
QY 2526 AAGACGGGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 2585
|||||
Db 218167 AAGACGGGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 218226
|||||
QY 2586 GCCAAGATTACCGCCCGCTGCAAGAGCTCAAGGCTTGCAGAAAGTGCAGACTGAGAGGCC 2645
|||||

Db 12965 ATCCGCTGACAGACGGGCGCATGTTGGGAGCAGCATTTCAGGCGCTGCGACAGCATG 13024
QY 760 TGCAGGCTAGCATCAAGCACTTTTGTGCAATGATGAGGAGCAGGCGCATGATGTGC 819
Db 13025 TGATCTCCAGCTCAACGATTATGCGATGATGATACCTCGAAGCTTCGCGCATGACCATGA 13084
QY 820 AGACATGCTGACAGGAGCGGGCTCTCCGTAATCTACGCACTCCGTTCCAGATTGCTG 879
Db 13085 GCGGGGATTCGACACCTGTGTGCCATGTGTAAGCGACCTGTGGCTTCGAGATCGCCG 13144
QY 880 TGCAGACTCCAGCGGGTGTCTCATGACGGCGTACATGCGCATCATGAGGCTGTG 939
Db 13145 TTGAACCGGGGACATCCGGGCGGTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 13204
QY 940 GCAGCGAAGACCTTAATATCTTGATGATGCTGCTGCAAGGAAATGGGTTGGATGCGC 999
Db 13205 CGTGTGAAGACCTGACCTGCTGTAACAAGACGCTGAAGGAGACTGGCATTTATCCGGCT 13264
QY 1000 TAATCATGAGCGACTGTGACGACATACAGTACAGACAGACCGCTTGTGGAGGCTCG 1059
Db 13265 TTGTCATGTCGACTGGGGGGGCGACGATTCCTCCGCGGGGCGGCTGGCGGGGCTGG 13324
QY 1060 ACCTCGA 1066
Db 13325 ATCAGGA 13331

RESULT 10

US-09-147-236-10
; Sequence 10, Application US/09147236A

; Patent No. 6316251
; GENERAL INFORMATION:
; APPLICANT: TONOUCHI, Naoto
; APPLICANT: TSUCHIDA, Takayasu
; APPLICANT: YOSHINAGA, Fumihito
; APPLICANT: TAHARA, Naoki
; APPLICANT: HAYASHI, Takahisa
; TITLE OF INVENTION: NOVEL GENE, GROUP OF GENES, AND NOVEL BETA-GLUCOSIDASE
; FILE REFERENCE: 6537-011-0PCT
; CURRENT APPLICATION NUMBER: US/09/147,236A
; EARLIER FILING DATE: 1999-04-08
; EARLIER APPLICATION NUMBER: PCT/JP97/03633
; NUMBER OF SEQ ID NOS: 12
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 10
; LENGTH: 16836
; TYPE: DNA
; ORGANISM: Acetobacter xylinum
; FEATURE:
; NAME/KEY: CDS
; LOCATION: (1891)..(2922)
; FEATURE:
; OTHER INFORMATION: Nucleotide sequence is the same as SEQ ID NO:1
; OTHER INFORMATION: n at positions 15741 and 15767 may be a, g, c, or
; OTHER INFORMATION: t
US-09-147-236-10

Query Match 3.4%; Score 101.4; DB 4; Length 16836;
Best Local Similarity 50.5%; Pred. No. 1,6e-11;

Matches 246; Conservative 0; Mismatches 241; Indels 0; Gaps 0;

QY 580 AGCAGGTAAAGATGATGGCGAAGAGCGCATGCTAGAGTGGGATGATGATCTCGGCC 639
Db 12845 AGCGCGGTGATGATGATGCGGCGGAGGATGGCAGAGCGGCTTCAACATCTGCTTGGCG 12994
QY 640 CGACTATCAACATGAGCTCCCTCTCGGTGAGAGTGGCTTGAATGATGATGAG 699
Db 12905 GCGGTGGGAGCTGAGCGGAGCCCGGTGGCGGCAACTTTGAATATGCGGGCGAAG 12964
QY 700 ATCCGTTCTGGGGGCTTGGAGCTGCGCTCATCCGGCGGCAATTCAGAGCACTGGAG 759

Db 12965 ATCCGCTGACAGACGGGCGCATGTTGGGAGCAGCATTTCAGGCGCTGCGACAGCATG 13024
QY 760 TGCAGGCTAGCATCAAGCACTTTTGTGCAATGATGAGGAGCAGGCGCATGATGTGC 819
Db 13025 TGATCTCCAGCTCAACGATTATGCGATGATGATACCTCGAAGCTTCGCGCATGACCATGA 13084
QY 820 AGACATGCTGACAGGAGCGGGCTCTCCGTAATCTACGCACTCCGTTCCAGATTGCTG 879
Db 13085 GCGGGGATTCGACACCTGTGTGCCATGTGTAAGCGACCTGTGGCTTCGAGATCGCCG 13144
QY 880 TGCAGACTCCAGCGGGTGTCTCATGACGGCGTACATGCGCATCATGAGGCTGTG 939
Db 13145 TTGAACCGGGGACATCCGGGCGGTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 13204
QY 940 GCAGCGAAGACCTTAATATCTTGATGATGCTGCTGCAAGGAAATGGGTTGGATGCGC 999
Db 13205 CGTGTGAAGACCTGACCTGCTGTAACAAGACGCTGAAGGAGACTGGCATTTATCCGGCT 13264
QY 1000 TAATCATGAGCGACTGTGACGACATACAGTACAGACAGACCGCTTGTGGAGGCTCG 1059
Db 13265 TTGTCATGTCGACTGGGGGGGCGACGATTCCTCCGCGGGGCGGCTGGCGGGGCTGG 13324
QY 1060 ACCTCGA 1066
Db 13325 ATCAGGA 13331

RESULT 11

US-08-387-942C-1
; Sequence 1, Application US/08387942C

; Patent No. 5939289
; GENERAL INFORMATION:
; APPLICANT: ERTESVAG, HELGA
; APPLICANT: VALLA, SVEIN
; APPLICANT: SKJAK-BRAEK, GUDMUND
; APPLICANT: LARSEN, BJORN
; TITLE OF INVENTION: DNA COMPOUNDS COMPRISING SEQUENCES
; TITLE OF INVENTION: ENCODING MANNONAN C-5-EPIMERASE
; NUMBER OF SEQUENCES: 52
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: BIRCH, STEWART, KOLASCH & BIRCH, LLP
; STREET: P.O. BOX 747
; CITY: FALLS CHURCH
; STATE: VA
; COUNTRY: USA
; ZIP: 22042
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/387,942C
; FILING DATE: 09-MAY-1995
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: MORPHY JR, GERALD M.
; REGISTRATION NUMBER: 28,977
; REFERENCE/DOCKET NUMBER: 1809-106P
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 703-205-8000
; TELEFAX: 703-205-8050
; INFORMATION FOR SEQ ID NO: 1:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 12588 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: DNA (genomic)
; ORIGINAL SOURCE:
; ORGANISM: Azotobacter vinelandii
; STRAIN: E

QY	1535	CATGGCGTGGAGGGGCTTTCACAGAGACCCCGTGGTAACCTTAAACCGGCACACATCTTGGAA	1599
Db	2601	CATCCCGGGGCCAGAGGGCGCGCATTCGGAGAGTGCACCTTGGAGCGGGTGGAAATCCGGGA	2667
QY	1595	GCTCTTCTTCAACCAAGACGACATGCACCTGGTGGACTACTACACCGGACAGGCGGACGA	1654
Db	2661	GATGTCCGGCTACAGGTTTTGACCCCGCCAGAGACCATCTACATTCAGATCCGCGACAG	2720
QY	1655	CACGTGTACCCCGCATATGAGGGGACGTACACGGCGAGAGAGACTGTGACCTACGACCT	1714
Db	2721	CGTGGCCCCACCAACAAACCTTCAGAGGCTTCGTGCGCGAGCTACCAAGTGTGGGGGTTT	2780
QY	1715	CGGCTCGTCTGTTCGGGCACGGCGAAAGGCGTACAGACACAGCTGTGTGACAA	1774
Db	2781	CGAGAACACGCTCTGTACAAACAAACGACCGCCAGGCTTCAACATGTCTACAGACCA	2840
QY	1775	CGCCACCAAGAGAGTCCCGGGCGATGGCTTCTTCCGCTCGCCACCCCGAGAGACGG	1834
Db	2841	CGACTTGTCTGTAGACAAACATCGCTTACGGCAACGGCGCGCGGCGCTGTGGTGTCA	2900
QY	1835	CCGCATCAATCTGCTCAAGGGGCAACACGTACAAAGTTCAAGATTCGAGTTTGGCTCGCAC	1894
Db	2901	GCGGGGCTGTACACACCTGCCCATCTTACGACATCTGATCGAAGGGCGGCTTACTA	2960
QY	1895	CACCTACACCTCAAGGGGGACACACATCGTCCCGGGCCACGGCTCCTTCGCGTGGCGG	1954
Db	2961	CGACACGCGCTTGGAAAGCGCTGACGTCAAGATGGCGCCACGACGTACACCTTGCAGAAACGC	3020
QY	1955	CTGCAAGGTATTGACACGACCGACGACCAAAATCAAAAAGTCCGCGCCCTGGCCAAAGGACA	2014
Db	3021	CGAGATCTACGGCAAGGGCCTGTAGGGGTGGCGCTTACGCGCGCCACGAGACGTGCAGAT	3080
QY	2015	CGACACAGTATATCTTCGGCGGGGCGCTTAAGCGCGAATTGGGAGACGAGGGCGCGGACCG	2074
Db	3081	CTCTGCACMACAGATCCAGACACATTCGCGAAGAACGGCCCTATGCGGAAGTCGTGTGCA	3140
QY	2075	CGCGAGCATGAACCTCCCGGGGTGTGTGACACGATCATTTGCCAGCGTGGCGCGCGGAA	2134
Db	3141	GTCTTACGAGACACCGCGGGGTGTGCGGCAACTTTTACGTACACACCGGACACTGTGGCT	3200
QY	2135	CCCAACACCGTGTGTATGCAGACGGGCAACCCCGAGAGATGGCCTTGGCTCGACGC	2194
Db	3201	CGAAGCGACAGCTATCAGGGGGCTCGGGCAATTCACACTTACGGGATTCAGAGAGCGCGCGA	3260
QY	2195	CAGCGCCCGCGTATCAAGCGCTGTGTACGGCGGCAACGAGACGGGCAACTTCATTGGCGA	2254
Db	3261	CGGCACCGACTACAGACGCTTACGCCAACAGATGCAGCGTGTGACAGACCGGGGGGT	3320
QY	2255	CGTGTCTTATGGGAGATCAACCCCTGGGGGACAGTGTCCCTACGCTTCCCAAGCGCT	2314
Db	3321	ACGGCTGTATGGCGCCAACTCGACGGTTTTCCAGCCAGTCTGGGCGATGGCCAGACGCGAC	3380
QY	2315	GCAGGACAAACCCCGGTTTTCTCA-----CTTCCGACGAGAGCGGGCGGCAAGCTGTGA	2368
Db	3381	CTCTGAAGGACGACGGGGGACAGATGGCGCTACGAGGACCGAGGCCACGAGACGCTGTCT	3440

248 CGACGACGACGACGACGACGACGACGACGACG

248

[illegible]

PRIORITY APPLICATION DATA:

APPLICATION NUMBER: US 07/625,140
 FILING DATE: 10-DEC-1990
 ATTORNEY/AGENT INFORMATION:
 NAME: Dillahunt, T. Gene
 REGISTRATION NUMBER: 25,423
 REFERENCE/DOCKET NUMBER: 010055-056
 TELECOMMUNICATION INFORMATION:
 TELEPHONE: 415-854-7400
 TELEFAX: 415-854-8275
 INFORMATION FOR SEQ ID NO: 1:
 SEQUENCE CHARACTERISTICS:
 LENGTH: 3033 base pairs
 TYPE: nucleic acid
 STRANDEDNESS: single
 TOPOLOGY: linear
 MOLECULE TYPE: DNA (genomic)
 HYPOTHEetical: NO
 ANTI-SENSE: NO
 ORIGINAL SOURCE:
 ORGANISM: Trichoderma reesei
 FEATURE:
 NAME/KEY: CDS
 LOCATION: join(311..375, 446..2205, 2270..2679)
 FEATURE:
 NAME/KEY: Intron
 LOCATION: 376..445
 FEATURE:
 NAME/KEY: Intron
 LOCATION: 2206..2269
 US-08-462-090-1

Query Match

Best Local Similarity 2.8%; Score 83.8; DB 3; Length 3033;
 Matches 264; Conservative 0; Mismatches 257; Indels 6; Gaps 2;

QY 552 TCACATTCAACCAACTCTGCTCGAAGAGGCGATAGATGATGGGCAAGAGCCATC 611
 DB 720 TCGACGTGGGATGTCATTTGATCCCGCAACGCGACATTCATCGTGAGAGGTGAAG 779
 QY 612 GCTAAGAGTGGCATGTGATCTCGGCC--GACTATACATGCAACGCTCCCTCTC 668
 DB 780 GCGTGGGGATTCATGTCATCTGCTGCTGGCGCGCGGGAAGAAAGCTCCGAG 839
 QY 669 GGTGACGTGGCTTCGAGTGGATGGTGGAGATCCCTTCTGGCGGCTTGGAGCTCG 728
 DB 840 GGGGTGCGCACTGGAGGGCTTCGCTGTCATTCATTCATTCGCGGATTCGATGGGT 899
 QY 729 GCTCTCATCGCGCATTCAGACACTGAGTGCAGGCTAGCATCAACACATTTTGTGC 788
 DB 900 CAACCATCAACGCGCATTCAGTGGGAGCGGAGCGAGCGACACATATATCTCTC 959
 QY 789 AATGATCAGAGAGACAGGGGCGATGATGTGACAGACATGTCAGGAGCGGCTCTCGT 848
 DB 960 AAGGACAGAGAGCTCATGATGAGAAACCATTTGAGCAACCCAGATCCGAATCTCAT 1019
 QY 849 GAATCTACGACATCCCTTCAGATTGCTGTGCGAGACTCCGACCGCGGGTGTATG 908
 DB 1020 GACCTGTATACCTTGGCCATTTGCCGACGCGTTC--AGCCATATGTCCTTGTATG 1076
 QY 909 ACGGCTTAATGATGATGCGCTGTGTCAGCGAAGACCTTAATATATGATGGG 968
 DB 1077 TCGTGTACAGAGTCAATACCACTGGGCTGCGAGATGCAAGTCAACGCTCAACT 1136
 QY 969 ATGCTTCGAAGAGATGGGGTGGATGGGCTTAATCAATGAGACGCTGTACGACATAC 1028
 DB 1137 GTCTGTAAGAGACAGCTGGGGTCCCAAGGCTATGATCAAGAGGCTGAACGACACAG 1196
 QY 1029 AATACACAGAGCCGTTGTGGAGGCTCGACCTCGAGATGCCGG 1075
 DB 1197 ACGAGTGTCAAGGCGAATTCGTGGCTTGAATGATGCTGCG 1243

RESULT 15

US-08-463-461-1
 Sequence 1, Application US/08463461
 Patent No. 6103464

GENERAL INFORMATION:

APPLICANT: Fowler, Timothy
 APPLICANT: Barnett, Christopher C.
 APPLICANT: Shoemaker, Sharon
 TITLE OF INVENTION: Saccharification of Cellulose by Cloning
 TITLE OF INVENTION: and Amplification of the Beta-glucosidase Gene of
 NUMBER OF SEQUENCES: 4
 CORRESPONDENCE ADDRESS:
 ADDRESSEE: Genencor International, Inc.
 STREET: 925 Page Mill Road
 CITY: Palo Alto
 STATE: California
 COUNTRY: U.S.A.
 ZIP: 94304-1013

COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk
 OPERATING SYSTEM: IBM PC compatible
 SOFTWARE: PC-DOS/MS-DOS

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/08/463,461
 FILING DATE: 05-JUN-1995
 CLASSIFICATION: 435

ATTORNEY/AGENT INFORMATION:

NAME: Christopher L. Stone
 REGISTRATION NUMBER: 35,696
 REFERENCE/DOCKET NUMBER: GC78D4
 TELECOMMUNICATION INFORMATION:
 TELEPHONE: 415-846-7555
 TELEFAX: 415-845-6504

INFORMATION FOR SEQ ID NO: 1:

SEQUENCE CHARACTERISTICS:

LENGTH: 3033 base pairs
 TYPE: nucleic acid
 STRANDEDNESS: single
 TOPOLOGY: linear

MOLECULE TYPE: DNA (genomic)

HYPOTHEtical: NO

ANTI-SENSE: NO

ORIGINAL SOURCE:

ORGANISM: Trichoderma reesei
 FEATURE:

NAME/KEY: CDS

LOCATION: join(311..375, 446..2205, 2270..2679)
 FEATURE:

NAME/KEY: Intron

LOCATION: 376..445
 FEATURE:

NAME/KEY: Intron

LOCATION: 2206..2269
 US-08-463-461-1

Query Match

Best Local Similarity 2.8%; Score 83.8; DB 3; Length 3033;
 Matches 264; Conservative 0; Mismatches 257; Indels 6; Gaps 2;

QY 552 TCACATTCAACCAACTCTGCTCGAAGAGGCGATAGATGATGGGCAAGAGCCATC 611
 DB 720 TCGACGTGGGATGTCATTTGATCCCGCAACGCGACATTCATCGTGAGAGGTGAAG 779
 QY 612 GCTAAGAGTGGCATGTGATCTCGGCC--GACTATCAATGCAACGCTCCCTCTC 668
 DB 780 GCGTGGGGATTCATGTCATCTGCTGCTGGCGCGCGGGAAGAAAGCTCCGAG 839
 QY 669 GGTGACGTGGCTTCGAGTGGATGGTGGAGATCCCTTCTGGCGGCTTGGAGCTCG 728
 DB 840 GGGGTGCGCACTGGAGGGCTTCGCTGTCATTCATTCATTCGCGGATTCGATGGGT 899

QY 729 GCTCTACCCGGCCATTCAGAGACATGGAGTGTCCAGGTCACATCAAGACATTTTGTGC 788

Db 900 CAACCAATCAAGGCCATTCAGTCCGTGATAGCGTCCAGGCCACACGAGACATATATCCTC 959

QY 789 AATATATCAGGAGGACAGGCCCATGATGTGTGCAGAGCATCTGTACAGGCGGGCTCCGT 848

Db 960 AACGAGGAGGGGCTCAATCCAGAAACCATTTCCAGGACACCAGATAGCCGAATCTCCAT 1019

QY 849 GAAATTCAGCCACTCCCGTTCAGATGTGCTGTGTCCGAGCATCCACGCGGGTCCGTATG 908

Db 1020 GAGCTGTATCTGGCCATTTTGGCGAAGCGGGTCC--AGCCAAATGTCCCTTCGTCTATG 1076

QY 909 ACGGCGTACATATGGCATCAATATGCGTGTGTGTGCAGCGAGAACCTTAATATCTTGATGGG 968

Db 1077 TGCTGTACACAAAGGTCATATACCACTTGGGCTGGGAGAGTACATACACGCTGAGACT 1136

QY 969 ATGCTTGAAAGGATATGGGTGTGGATGTGCTATATCATATAGGAGCATGTGTACGACATAC 1028

Db 1137 GTGTGTAAAGACAGCTGGGGGTTCCAGGCTATATCATATAGGACATGTGAAGGACACAGAC 1196

QY 1029 AGTACCAAGAGCCGTTGTGGAGGCGCTTCAGACATCGAATGCCCGG 1075

Db 1197 ACGAGCTTCCAAAGCGGCAATTTTGGGCTTGACATGTCAATCCCTGG 1243

Search completed: May 3, 2003, 22:13:50
Job time : 3750.91 secs

